TOBACCO INSTITUTE TESTING LABORATORY

MARKET SAMPLE NO. 24 RETEST

FOR CARBON MONOXIDE

DELIVERY

PART I

PER CIGARETTE AND PER PUFF DATA
FOR 47 SELECTED BRANDS

PM3000762552

Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

SECTION I

PER CIGARETTE DATA

PM3000762553

Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg/cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Benson & Hedges 100's	$\bar{x}$	16.3±0.3	1.18±0.02	16.1±0.4	1.8±0.1	19.2±0.3	9.7±0.1
100 mm.	s	0.6	0.04	0.8	0.2	0.8	0.3
filter	CV	3.9	3.2	4.9	10.9	4.0	2.9
soft pack							
Benson & Hedges Lights	$\bar{x}$	10.1±0.3	0.81±0.02	12.6±0.5	0.9±0.04	11.9±0.4	9.7±0.1
100 mm.	s	0.7	0.05	1.2	0.1	0.8	0.2
filter	CV	7.1	5.8	9.2	10.6	7.0	2.3
Camel	$\bar{x}$	26.2±0.4	1.93±0.04	18.1±0.3	4.5±0.3	32.6±0.7	7.6±0.1
regular size,	s	1.0	0.08	0.8	0.6	1.6	0.3
non-filter	CV	3.7	4.3	4.2	12.9	4.8	4.0
Camel Lights	$\bar{x}$	10.1±0.3	0.96±0.02	10.8±0.3	1.1±0.1	12.2±0.3	8.0±0.1
king size,	s	0.6	0.05	0.8	0.1	0.8	0.2
filter	CV	6.2	4.9	7.1	11.8	6.2	2.6
Carlton	$\bar{x}$	-0.04±0.1	0.05±0.003	0.6±0.04	0.02±0.01	0.03±0.1	7.4±0.1
king size,	s	0.1	0.01	0.1	0.03	0.1	0.3
filter	CV	358.8	12.2	14.5	145.7	489.2	4.1
hard pack							
Carlton	$\bar{x}$	0.8±0.1	0.14±0.01	1.8±0.1	0.1±0.02	1.0±0.1	6.8±0.1
king size,	s	0.2	0.02	0.2	0.05	0.2	0.3
filter	CV	26.8	12.9	12.8	52.5	21.8	4.7
soft pack							
Carlton	$\bar{x}$	0.5±0.1	0.11±0.01	1.3±0.1	0.1±0.03	0.7±0.1	6.5±0.1
king size,	s	0.2	0.01	0.2	0.1	0.2	0.3
filter menthol	CV	40.8	12.7	15.7	85.4	32.1	4.0
Carlton 100's	$\bar{x}$	4.0±0.3	0.41±0.02	6.1±0.3	0.3±0.03	4.8±0.3	8.7±0.2
100 mm.	s	0.6	0.03	0.6	0.1	0.6	0.4
filter	CV	14.9	8.5	10.6	21.6	13.4	4.3
Chesterfield	$\bar{x}$	28.2±0.4	1.81±0.03	19.0±0.3	4.2±0.2	34.2±0.6	9.9±0.2
king size,	s	0.9	0.08	0.6	0.5	1.3	0.4
non-filter	CV	3.2	4.2	3.4	10.9	3.8	3.6

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BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg/cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Decade	$\bar{x}$	5.1±0.2	0.50±0.03	3.6±0.2	0.5±0.03	6.1±0.3	7.6±0.1
king size,	s	0.5	0.06	0.5	0.1	0.6	0.3
filter	CV	9.4	11.7	14.2	14.4	9.3	3.3
Decade	$\bar{x}$	8.6±0.2	0.82±0.02	6.9±0.2	0.8±0.05	10.3±0.3	9.0±0.1
100 mm.	s	0.5	0.05	0.4	0.1	0.6	0.3
filter	CV	5.7	6.5	6.2	13.7	5.9	3.1
Doral II	$\bar{x}$	5.1±0.3	0.49±0.03	4.6±0.3	0.4±0.03	6.0±0.4	7.6±0.1
king size,	s	0.7	0.06	0.7	0.1	0.8	0.2
filter	CV	13.7	11.7	15.6	17.0	13.4	3.2
Golden Lights	$\bar{x}$	7.7±0.2	0.76±0.02	7.7±0.3	0.7±0.04	9.1±0.3	7.1±0.1
king size,	s	0.5	0.05	0.6	0.1	0.7	0.2
filter	CV	7.1	6.0	8.4	14.1	7.4	2.7
Golden Lights	$\bar{x}$	8.1±0.3	0.82±0.03	8.3±0.4	0.7±0.03	9.6±0.3	8.8±0.1
100 mm.	s	0.6	0.06	1.0	0.1	0.7	0.3
filter menthol	CV	7.3	6.9	11.4	10.7	7.2	2.9
Kent III	$\bar{x}$	2.8±0.2	0.39±0.02	3.2±0.2	0.2±0.03	3.4±0.2	7.2±0.1
king size,	s	0.4	0.05	0.5	0.1	0.5	0.3
filter	CV	14.5	13.1	15.9	32.1	14.5	3.9
Kent III	$\bar{x}$	4.3±0.2	0.54±0.01	6.5±0.2	0.3±0.05	5.2±0.2	8.4±0.1
100 mm.	s	0.4	0.02	0.5	0.1	0.4	0.2
filter	CV	8.6	4.1	7.2	29.8	7.5	2.4
Kool	$\bar{x}$	16.1±0.4	1.25±0.02	16.9±0.4	2.8±0.2	20.1±0.5	7.8±0.1
king size,	s	0.8	0.05	0.9	0.4	1.1	0.2
filter menthol	CV	5.0	4.4	5.0	15.5	5.6	2.9
soft pack							

PM3000762555

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BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Kool Milds	$\bar{x}$	11.7±0.3	0.95±0.02	13.4±0.4	1.6±0.1	14.3±0.4	7.3±0.1
king size,	s	0.8	0.05	0.9	0.2	0.9	.3
filter menthol	CV	6.4	5.6	6.9	13.2	6.3	3.7
Kool Super Lights	$\bar{x}$	7.3±0.2	0.71±0.02	8.4±0.3	0.7±0.03	8.7±0.2	8.1±0.2
king size,	s	0.4	0.03	0.6	0.1	0.5	0.4
filter menthol	CV	6.1	4.8	7.0	9.2	5.9	4.5
Kool Super Lights	$\bar{x}$	8.8±0.2	0.75±0.02	10.4±0.4	0.7±0.04	10.3±0.3	9.7±0.1
100 mm.	s	0.5	0.05	0.9	0.1	0.6	0.2
filter menthol	CV	6.1	6.3	8.3	12.0	6.2	2.1
L & M	$\bar{x}$	14.9±0.4	1.06±0.03	14.9±0.2	2.6±0.2	18.5±0.6	7.7±0.1
king size,	s	1.0	0.06	0.5	0.4	1.3	0.2
filter	CV	6.5	5.5	3.1	17.0	7.0	2.5
soft pack							
L & M Lights	$\bar{x}$	8.1±0.3	0.77±0.02	5.6±0.2	0.8±0.1	9.6±0.3	8.2±0.2
king size,	s	0.6	0.05	0.5	0.1	0.7	0.4
filter	CV	7.2	6.4	8.5	15.1	7.5	4.7
L & M Lights	$\bar{x}$	8.3±0.3	0.80±0.03	6.1±0.3	0.7±0.04	9.8±0.3	9.2±0.2
100 mm.	s	0.6	0.06	0.7	0.1	0.7	0.3
filter	CV	6.8	7.0	10.8	14.0	7.1	3.7
Lark Lights	$\bar{x}$	7.6±0.2	0.66±0.01	8.0±0.2	0.6±0.02	8.9±0.2	7.8±0.1
100 mm.	s	0.4	0.02	0.4	0.05	0.4	0.3
filter	CV	5.1	3.5	5.4	7.5	4.7	4.1
Marlboro	$\bar{x}$	16.3±0.3	1.13±0.02	15.7±0.4	2.6±0.1	20.0±0.4	8.7±0.2
king size,	s	0.7	0.05	0.8	0.3	0.9	0.3
filter	CV	4.5	4.6	5.1	12.7	4.5	3.9
soft pack							

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BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg/cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Marlboro Lights	$\bar{x}$	11.6±0.3	0.85±0.01	12.6±0.4	1.2±0.1	13.6±0.3	7.8±0.2
king size,	s	0.6	0.03	0.8	0.1	0.7	0.4
filter	CV	5.3	3.8	6.5	10.7	5.4	5.6
Marlboro Lights	$\bar{x}$	11.4±0.3	0.87±0.02	13.6±0.3	1.1±0.1	13.4±0.3	9.6±0.1
100 mm.	s	0.6	0.04	0.7	0.1	0.7	0.2
filter	CV	5.0	4.2	5.3	11.5	5.0	2.6
Merit	$\bar{x}$	8.0±0.2	0.64±0.01	10.9±0.3	0.8±0.04	9.4±0.2	7.8±0.1
king size,	s	0.4	0.02	0.6	0.1	0.5	0.2
filter	CV	5.0	3.0	5.6	11.7	5.0	3.1
More	$\bar{x}$	21.9±0.5	1.80±0.03	24.0±0.6	2.4±0.1	26.1±0.6	15.2±0.2
120 mm.	s	1.1	0.07	1.3	0.2	1.4	0.5
filter	CV	5.1	4.1	5.4	10.0	5.2	3.2
Now	$\bar{x}$	1.9±0.1	0.25±0.01	2.6±0.2	0.2±0.02	2.4±0.2	7.7±0.1
king size,	s	0.3	0.03	0.4	0.04	0.4	0.3
filter	CV	16.9	11.7	13.8	25.9	15.6	4.3
soft pack							
Pall Mall	$\bar{x}$	24.3±0.3	1.48±0.02	17.7±0.4	3.6±0.1	29.3±0.4	9.1±0.1
king size,	s	0.6	0.05	0.9	0.3	0.8	0.2
non-filter	CV	2.7	3.1	5.1	7.5	2.8	2.6
Pall Mall Light 100 s	$\bar{x}$	10.9±0.3	0.92±0.02	11.1±0.3	0.9±0.1	12.7±0.3	9.4±0.2
100 mm.	s	0.6	0.05	0.6	0.1	0.7	0.4
filter	CV	5.5	5.9	5.7	12.4	5.7	4.1
Parliament Lights	$\bar{x}$	9.4±0.2	0.76±0.01	10.5±0.3	1.0±0.1	11.2±0.3	8.2±0.1
king size,	s	0.5	0.03	0.6	0.2	0.6	0.2
filter	CV	5.2	4.0	5.6	15.6	5.7	2.2
soft pack							

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BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg/cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Raleigh Lights	$\bar{x}$	8.6±0.2	0.77±0.01	10.5±0.4	0.8±0.04	10.2±0.3	8.3±0.2
king size,	s	0.5	0.03	0.9	0.1	0.6	0.3
filter	CV	5.5	3.9	8.2	11.6	5.7	4.1
Salem	$\bar{x}$	15.8±0.2	1.18±0.02	16.8±0.3	2.9±0.2	19.8±0.4	8.4±0.1
king size,	s	0.5	0.04	0.7	0.5	1.0	0.2
filter menthol	CV	3.4	3.5	4.0	17.4	4.9	2.4
soft pack							
Tareyton	$\bar{x}$	13.4±0.3	0.92±0.02	15.1±0.3	2.9±0.2	17.2±0.5	8.2±0.1
king size,	s	0.7	0.05	0.7	0.5	1.0	0.3
filter	CV	5.3	5.4	4.7	16.1	6.0	3.9
Tareyton Long Lights	$\bar{x}$	7.5±0.2	0.67±0.02	8.3±0.3	0.6±0.04	8.8±0.3	10.3±0.2
100 mm	s	0.5	0.05	0.6	0.1	0.6	0.4
filter	CV	6.6	8.2	7.4	12.8	6.7	4.0
Triumph	$\bar{x}$	2.8±0.2	0.41±0.03	3.3±0.3	0.2±0.02	3.4±0.2	7.4±0.2
king size,	s	0.5	0.06	0.6	0.04	0.6	0.4
filter	CV	16.9	14.4	17.6	19.7	16.4	5.2
True	$\bar{x}$	4.9±0.2	0.47±0.02	5.6±0.2	0.5±0.04	5.9±0.2	6.5±0.1
king size,	s	0.4	0.03	0.5	0.1	0.5	0.3
filter	CV	9.1	7.2	8.7	16.0	8.9	4.0
True	$\bar{x}$	4.9±0.1	0.47±0.01	5.7±0.2	0.5±0.04	5.9±0.2	6.5±0.1
king size,	s	0.3	0.03	0.5	0.1	0.4	0.2
filter menthol	CV	6.7	7.0	8.0	17.9	6.1	3.7
Vantage	$\bar{x}$	10.6±0.3	0.87±0.02	14.7±0.4	1.4±0.1	12.9±0.4	7.5±0.1
king size,	s	0.7	0.04	0.9	0.1	0.8	0.2
filter	CV	6.1	5.0	6.0	10.2	6.1	2.5
Vantage Ultra Light	$\bar{x}$	5.9±0.1	0.58±0.01	8.4±0.2	0.6±0.04	7.0±0.2	7.3±0.1
king size,	s	0.3	0.03	0.5	0.1	0.4	0.2
filter	CV	5.6	4.3	6.2	15.3	5.7	2.9

PM3000762558

Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

BRAND		Tar mg/cigt.	Nicotine mg/cigt.	CO mg/cigt.	Water mg/cigt.	TPM mg/cigt.	Puff Count
Viceroy	$\bar{x}$	14.4±0.3	1.00±0.02	16.9±0.3	2.7±0.1	18.1±0.4	7.9±0.1
king size,	s	0.7	0.04	0.7	0.3	1.0	0.3
filter	CV	5.1	4.4	4.3	11.9	5.3	3.2
Viceroy Rich Lights	$\bar{x}$	8.5±0.3	0.77±0.02	10.3±0.4	0.8±0.1	10.1±0.3	8.5±0.1
king size,	s	0.6	0.05	0.9	0.1	0.7	0.2
filter	CV	6.9	6.4	8.9	14.0	7.0	2.8
Viceroy Rich Lights	$\bar{x}$	8.6±0.2	0.78±0.02	11.3±0.3	0.8±0.04	10.1±0.2	9.8±0.2
100 mm.	s	0.5	0.04	0.6	0.1	0.5	0.4
filter	CV	5.3	4.7	5.2	11.9	5.2	3.6
Virginia Slims	$\bar{x}$	14.9±0.3	1.05±0.01	14.7±0.4	1.8±0.1	17.8±0.4	9.0±0.1
100 mm.	s	0.8	0.03	0.9	0.2	0.9	0.2
filter	CV	5.2	3.1	6.0	12.2	5.1	2.5
Winston	$\bar{x}$	19.5±0.6	1.45±0.04	18.3±0.3	4.3±0.2	25.2±0.6	9.1±0.1
king size,	s	1.3	0.08	0.8	0.5	1.4	0.3
filter	CV	6.8	5.5	4.1	11.0	5.4	2.9
soft pack							
Monitor	$\bar{x}$	16.1±0.10	1.21±0.006	16.9±0.09	3.5±0.06	20.8±0.1	8.1±0.03
Lorillard	s	0.7	0.05	0.7	0.4	1.0	0.2
	CV	4.6	4.1	4.2	12.4	4.8	3.0

PM3000762559

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SECTION II

PER PUFF DATA

PM3000762560

Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Benson & Hedges 100's 100 mm. filter soft pack	$\bar{x}$	1.68±0.03	0.121±0.002	1.66±0.03	0.18±0.01	1.98±0.04
	s	0.07	0.004	0.07	0.02	0.08
	CV	4.0	3.1	4.4	11.1	4.2
Benson & Hedges Lights 100 mm. filter	$\bar{x}$	1.04±0.03	0.083±0.002	1.30±0.05	0.10±0.004	1.22±0.04
	s	0.07	0.004	0.12	0.01	0.08
	CV	6.9	5.3	9.2	10.0	6.7
Camel regular size, non-filter	$\bar{x}$	3.44±0.05	0.253±0.005	2.37±0.04	0.58±0.03	4.28±0.07
	s	0.11	0.011	0.09	0.07	0.17
	CV	3.3	4.2	3.8	11.4	3.9
Camel Lights king size, filter	$\bar{x}$	1.26±0.04	0.119±0.003	1.35±0.04	0.14±0.01	1.52±0.04
	s	0.08	0.006	0.10	0.02	0.10
	CV	6.5	4.9	7.2	11.4	6.3
Carlton king size, filter hard pack	$\bar{x}$	-0.006±0.01	0.007±0.0004	0.08±0.01	0.003±0.002	0.004±0.01
	s	0.02	0.001	0.01	0.004	0.02
	CV	-365.2	12.1	15.5	144.6	509.9
Carlton king size, filter soft pack	$\bar{x}$	0.12±0.01	0.020±0.001	0.26±0.02	0.01±0.003	0.15±0.01
	s	0.03	0.003	0.04	0.01	0.03
	CV	27.0	13.4	14.2	51.1	21.7
Carlton king size, filter menthol	$\bar{x}$	0.08±0.02	0.016±0.001	0.20±0.02	0.01±0.004	0.11±0.02
	s	0.03	0.002	0.03	0.01	0.04
	CV	42.8	14.1	17.1	85.1	34.2
Carlton 100's 100 mm. filter	$\bar{x}$	0.46±0.03	0.047±0.002	0.70±0.04	0.04±0.004	0.55±0.04
	s	0.08	0.005	0.09	0.01	0.08
	CV	16.6	10.8	12.9	20.7	15.1
Chesterfield king size, non-filter	$\bar{x}$	2.86±0.06	0.184±0.004	1.93±0.04	0.43±0.02	3.48±0.09
	s	0.14	0.010	0.08	0.05	0.19
	CV	4.8	5.4	4.4	12.5	5.5

PM3000762561

Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Decade king size, filter	$\bar{x}$	0.67±0.03	0.066±0.004	0.48±0.03	0.06±0.004	0.80±0.04
	s	0.07	0.008	0.07	0.01	0.09
	CV	10.7	12.7	15.5	15.5	10.7
Decade 100 mm. filter	$\bar{x}$	0.96±0.03	0.091±0.003	0.77±0.02	0.09±0.01	1.14±0.04
	s	0.07	0.007	0.06	0.01	0.08
	CV	7.2	7.2	7.2	14.1	7.3
Doral II king size, filter	$\bar{x}$	0.66±0.04	0.065±0.004	0.60±0.05	0.06±0.005	0.78±0.05
	s	0.10	0.009	0.10	0.01	0.12
	CV	15.1	13.4	16.9	18.0	14.8
Golden Lights king size, filter	$\bar{x}$	1.08±0.04	0.106±0.003	1.09±0.05	0.10±0.01	1.29±0.05
	s	0.09	0.007	0.11	0.02	0.11
	CV	8.3	6.7	9.7	15.1	8.5
Golden Lights 100 mm. filter menthol	$\bar{x}$	0.92±0.04	0.094±0.003	0.95±0.06	0.08±0.004	1.10±0.04
	s	0.09	0.008	0.13	0.01	0.10
	CV	9.3	8.3	13.7	12.3	9.2
Kent III king size, filter	$\bar{x}$	0.39±0.03	0.053±0.003	0.45±0.04	0.03±0.004	0.47±0.03
	s	0.06	0.008	0.08	0.01	0.08
	CV	16.3	14.3	17.5	32.8	16.3
Kent III 100 mm. filter	$\bar{x}$	0.52±0.02	0.065±0.001	0.78±0.03	0.04±0.01	0.63±0.03
	s	0.05	0.003	0.07	0.01	0.06
	CV	10.1	5.0	8.7	30.7	9.1
Kool king size, filter menthol soft pack	$\bar{x}$	2.06±0.06	0.160±0.003	2.17±0.06	0.36±0.03	2.58±0.08
	s	0.12	0.007	0.14	0.06	0.17
	CV	6.1	4.4	6.6	16.1	6.6

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Source: https://www.industrydocuments.ucsf.edu/docs/ztvl0001

BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Kool Milds king size, filter menthol	$\bar{x}$	1.62±0.05	0.131±0.003	1.84±0.06	0.22±0.01	1.96±0.05
	s	0.11	0.007	0.14	0.02	0.12
	CV	6.5	5.2	7.4	11.1	5.9
Kool Super Lights king size, filter menthol	$\bar{x}$	0.90±0.03	0.087±0.003	1.04±0.04	0.08±0.004	1.07±0.04
	s	0.07	0.006	0.10	0.01	0.08
	CV	7.9	6.6	9.2	11.7	7.9
Kool Super Lights 100 mm. filter menthol	$\bar{x}$	0.91±0.03	0.078±0.002	1.07±0.04	0.08±0.004	1.06±0.03
	s	0.06	0.005	0.09	0.01	0.07
	CV	6.4	6.7	8.4	12.4	6.6
L & M king size, filter soft pack	$\bar{x}$	1.94±0.06	0.138±0.004	1.94±0.04	0.33±0.03	2.41±0.08
	s	0.14	0.008	0.09	0.06	0.18
	CV	7.3	5.9	4.5	16.9	7.7
L & M Lights king size, filter	$\bar{x}$	0.99±0.04	0.095±0.003	0.69±0.03	0.09±0.01	1.18±0.05
	s	0.09	0.007	0.07	0.02	0.11
	CV	8.9	7.8	9.7	16.6	9.2
L & M Lights 100 mm. filter	$\bar{x}$	0.91±0.03	0.088±0.004	0.67±0.03	0.08±0.01	1.07±0.04
	s	0.08	0.008	0.08	0.01	0.09
	CV	8.4	8.9	11.6	15.7	8.7
Lark Lights 100 mm. filter	$\bar{x}$	0.98±0.03	0.085±0.002	1.02±0.03	0.08±0.003	1.14±0.03
	s	0.06	0.004	0.06	0.01	0.07
	CV	6.1	4.6	6.1	8.6	5.8
Marlboro king size, filter soft pack	$\bar{x}$	1.87±0.05	0.129±0.003	1.80±0.05	0.30±0.02	2.30±0.05
	s	0.10	0.006	0.10	0.04	0.12
	CV	5.6	4.6	5.8	12.4	5.3

PM3000762563

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BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Marlboro Lights	$\bar{x}$	1.50±0.07	0.110±0.005	1.63±0.05	0.15±0.01	1.76±0.08
king size,	s	0.15	0.010	0.11	0.02	0.18
filter	CV	10.2	9.2	7.0	15.0	10.3
Marlboro Lights	$\bar{x}$	1.19±0.02	0.091±0.002	1.42±0.03	0.12±0.01	1.40±0.03
100 mm.	s	0.05	0.004	0.06	0.01	0.06
filter	CV	4.2	3.9	4.0	11.6	4.4
Merit	$\bar{x}$	1.02±0.03	0.082±0.001	1.40±0.04	0.11±0.01	1.21±0.03
king size,	s	0.06	0.002	0.10	0.01	0.07
filter	CV	5.8	2.9	6.9	11.0	5.6
More	$\bar{x}$	1.44±0.04	0.119±0.003	1.58±0.05	0.16±0.01	1.72±0.05
120 mm.	s	0.10	0.006	0.12	0.02	0.12
filter	CV	6.7	5.3	7.4	11.7	6.8
Now	$\bar{x}$	0.25±0.02	0.032±0.002	0.34±0.02	0.02±0.003	0.31±0.02
king size,	s	0.05	0.004	0.05	0.01	0.05
filter	CV	18.3	13.0	15.0	29.4	17.3
soft pack						
Pall Mall	$\bar{x}$	2.66±0.04	0.163±0.002	1.94±0.05	0.39±0.01	3.22±0.05
king size,	s	0.09	0.005	0.10	0.03	0.12
non-filter	CV	3.5	3.2	5.3	8.0	3.6
Pall Mall Light 100's	$\bar{x}$	1.16±0.04	0.98±0.003	1.18±0.04	0.10±0.01	1.36±0.04
100 mm.	s	0.08	0.006	0.09	0.01	0.10
filter	CV	6.9	6.5	7.7	13.2	7.0
Parliament Lights	$\bar{x}$	1.15±0.03	0.093±0.002	1.28±0.04	0.13±0.01	1.37±0.04
king size,	s	0.08	0.005	0.08	0.02	0.10
filter	CV	6.7	5.3	6.3	17.1	7.3
soft pack						

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BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Raleigh Lights	$\bar{x}$	1.03±0.02	0.093±0.002	1.26±0.05	0.10±0.004	1.22±0.03
king size,	s	0.05	0.004	0.11	0.01	0.06
filter	CV	5.2	4.0	8.7	10.0	5.2
Salem	$\bar{x}$	1.87±0.03	0.139±0.002	1.99±0.04	0.34±0.03	2.35±0.05
king size,	s	0.07	0.006	0.09	0.06	0.12
filter menthol soft pack	CV	3.8	4.0	4.5	17.3	5.0
Tareyton	$\bar{x}$	1.65±0.04	0.113±0.003	1.85±0.04	0.35±0.02	2.11±0.06
king size,	s	0.09	0.006	0.09	0.05	0.12
filter	CV	5.6	5.6	5.0	15.0	5.8
Tareyton Long Lights	$\bar{x}$	0.73±0.03	0.065±0.003	0.81±0.03	0.06±0.004	0.86±0.03
100 mm.	s	0.06	0.006	0.07	0.01	0.07
filter	CV	8.3	9.8	9.0	14.9	8.5
Triumph	$\bar{x}$	0.38±0.03	0.055±0.004	0.44±0.04	0.03±0.002	0.46±0.04
king size,	s	0.07	0.009	0.09	0.01	0.08
filter	CV	18.8	16.2	20.1	21.5	18.3
True	$\bar{x}$	0.75±0.03	0.072±0.003	0.85±0.04	0.08±0.01	0.90±0.04
king size,	s	0.08	0.006	0.09	0.01	0.09
filter	CV	10.4	8.2	10.2	16.9	10.2
True	$\bar{x}$	0.75±0.02	0.071±0.002	0.88±0.03	0.08±0.01	0.90±0.03
king size,	s	0.05	0.005	0.06	0.01	0.06
filter menthol	CV	7.0	7.2	6.9	17.2	6.3
Vantage	$\bar{x}$	1.42±0.04	0.116±0.002	1.96±0.04	0.19±0.01	1.72±0.04
king size,	s	0.08	0.005	0.09	0.02	0.09
filter	CV	5.6	4.4	4.6	9.4	5.5
Vantage Ultra Light	$\bar{x}$	0.81±0.02	0.080±0.002	1.15±0.03	0.08±0.01	0.96±0.02
king size	s	0.05	0.004	0.06	0.01	0.06
filter	CV	5.7	5.0	5.4	15.1	5.8

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BRAND		Tar mg/puff	Nicotine mg/puff	CO mg/puff	Water mg/puff	TPM mg/puff
Viceroy	$\bar{x}$	1.83±0.03	0.127±0.002	2.13±0.04	0.34±0.02	2.29±0.04
king size,	s	0.07	0.004	0.08	0.04	0.10
filter	CV	3.9	3.2	3.8	11.5	4.3
Viceroy Rich Lights	$\bar{x}$	1.01±0.03	0.091±0.003	1.22±0.05	0.10±0.01	1.20±0.04
king size,	s	0.07	0.006	0.11	0.01	0.09
filter	CV	7.4	6.7	9.1	14.9	7.6
Viceroy Rich Lights	$\bar{x}$	0.88±0.03	0.080±0.002	1.15±0.03	0.08±0.004	1.04±0.03
100 mm.	s	0.06	0.005	0.08	0.01	0.07
filter	CV	7.2	6.0	6.7	12.1	7.0
Virginia Slims	$\bar{x}$	1.65±0.05	0.116±0.002	1.63±0.05	0.20±0.01	1.97±0.06
100 mm.	s	0.11	0.005	0.11	0.03	0.13
filter	CV	6.7	4.2	7.0	13.5	6.6
Winston	$\bar{x}$	2.13±0.07	0.159±0.004	2.01±0.04	0.47±0.02	2.76±0.07
king size,	s	0.16	0.009	0.10	0.05	0.16
filter	CV	7.4	5.5	5.0	11.1	5.9
soft pack						

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